

10/30/2005 10735953.trn

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LOGINID:SSSPTA1626GMS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

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NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY  
NEWS 8 OCT 03 MATHDI removed from STN  
NEWS 9 OCT 04 CA/CAPLUS-Canadian Intellectual Property Office (CIPO) added  
to core patent offices  
NEWS 10 OCT 06 STN AnaVist workshops to be held in North America  
NEWS 11 OCT 13 New CAS Information Use Policies Effective October 17, 2005  
NEWS 12 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download  
of CAPLUS documents for use in third-party analysis and  
visualization tools  
NEWS 13 OCT 27 Free KWIC format extended in full-text databases  
NEWS 14 OCT 27 DIOGENES content streamlined  
NEWS 15 OCT 27 EPFULL enhanced with additional content  
  
NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005  
  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

\*PROMT - PROMT from 1978 - present

\* The files listed above are temporarily unavailable.

FILE 'HOME' ENTERED AT 15:04:36 ON 30 OCT 2005

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST  | 0.21             | 0.21          |

FILE 'REGISTRY' ENTERED AT 15:04:53 ON 30 OCT 2005

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STRUCTURE FILE UPDATES: 28 OCT 2005 HIGHEST RN 866391-97-1

DICTIONARY FILE UPDATES: 28 OCT 2005 HIGHEST RN 866391-97-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

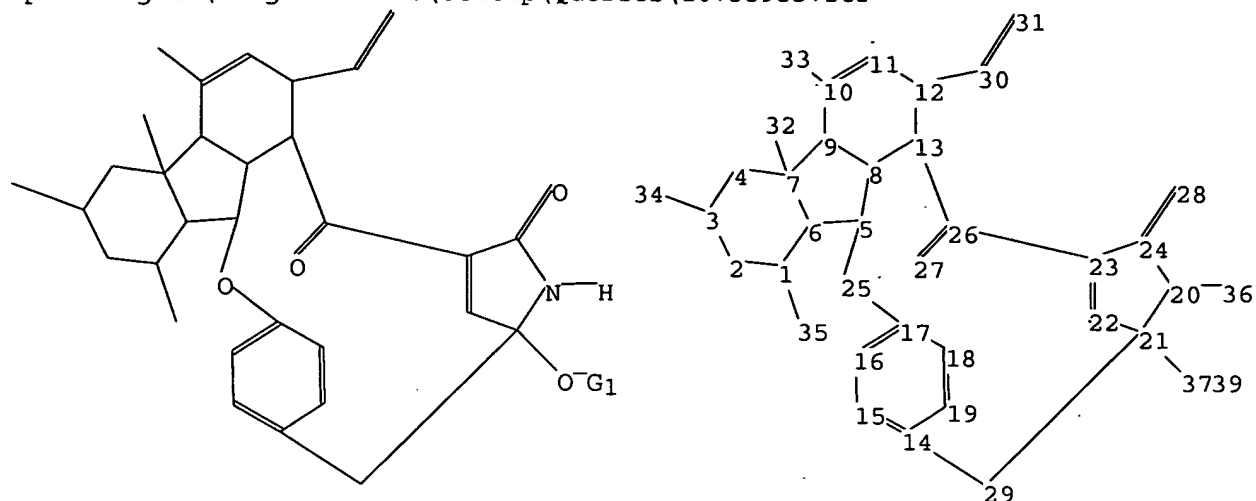
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10735953.str



chain nodes :

27 28 30 31 32 33 34 35 36 37 39

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23  
24 25 26 29

chain bonds :

1-35 3-34 7-32 10-33 12-30 20-36 21-37 24-28 26-27 30-31 37-39

ring bonds :

1-2 1-6 2-3 3-4 4-7 5-8 5-6 5-25 6-7 7-9 8-13 8-9 9-10 10-11 11-12  
12-13 13-26 14-15 14-19 14-29 15-16 16-17 17-18 17-25 18-19 20-21 20-24  
21-22 21-29 22-23 23-24 23-26

exact/norm bonds :

5-8 5-25 8-13 8-9 9-10 10-11 11-12 12-13 13-26 14-29 17-25 20-21 20-24  
21-29 21-37 23-24 23-26 24-28 26-27 37-39

exact bonds :

1-2 1-6 1-35 2-3 3-4 3-34 4-7 5-6 6-7 7-9 7-32 10-33 12-30 20-36  
21-22 22-23 30-31

normalized bonds :

14-15 14-19 15-16 16-17 17-18 18-19

isolated ring systems :

containing 1 :

G1:H,CH3,Ak

Match level :

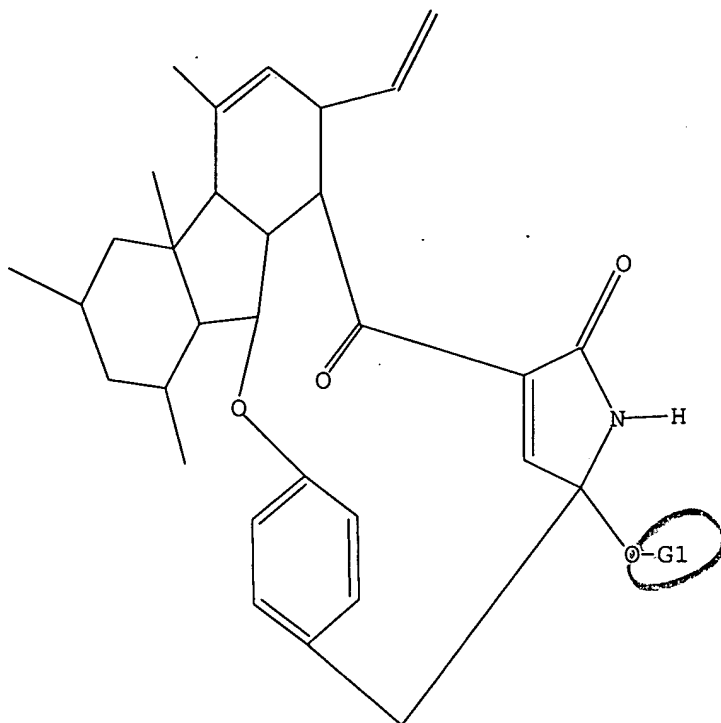
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:CLASS  
29:Atom 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS  
37:CLASS 39:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 H, Me, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:05:12 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 15:05:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 11 TO ITERATE

10/30/2005 10735953.trn

100.0% PROCESSED 11 ITERATIONS  
SEARCH TIME: 00.00.01

3 ANSWERS

L3 3 SEA SSS FUL L1

=> FIL HCAPLUS  
COST IN U.S. DOLLARS

SINCE FILE TOTAL  
ENTRY SESSION  
161.33 161.54

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 15:05:24 ON 30 OCT 2005  
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FILE COVERS 1907 - 30 Oct 2005 VOL 143 ISS 19  
FILE LAST UPDATED: 28 Oct 2005 (20051028/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 3 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:533983 HCAPLUS

DOCUMENT NUMBER: 141:52971

TITLE: Antibiotic cyan426-A produced by fermentation of *Cylindrocarpus* NRRL 30632

INVENTOR(S): He, Haiyin; Yang, Hui; Bigelis, Ramunas

PATENT ASSIGNEE(S): Wyeth Holdings Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

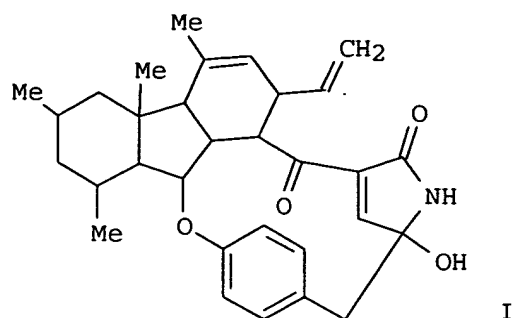
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

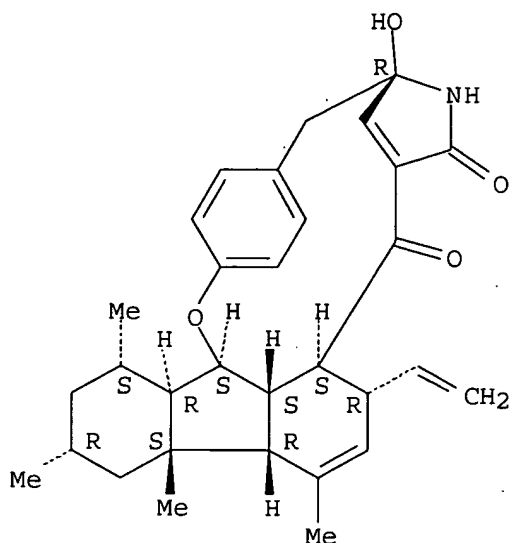
PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE      | APPLICATION NO. | DATE       |
|------------------------|--------|-----------|-----------------|------------|
| US 2004127540          | A1     | 20040701  | US 2003-735953  | 20031215   |
| PRIORITY APPLN. INFO.: |        |           | US 2002-434005P | P 20021217 |
| OTHER SOURCE(S):       | MARPAT | 141:52971 |                 |            |
| GI                     |        |           |                 |            |



# I

Rotation (+). Absolute stereochemistry unknown.  
Currently available stereo shown.



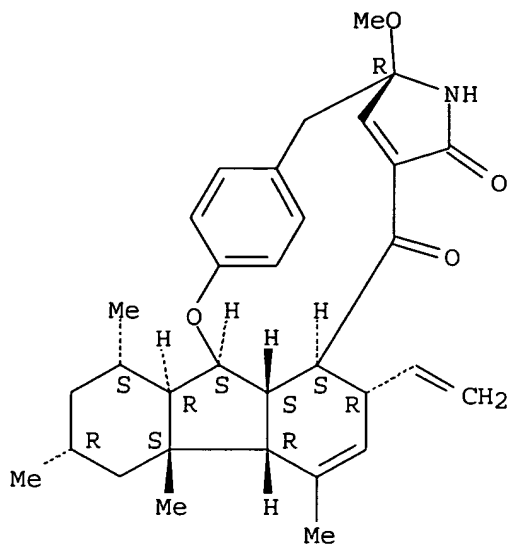
RL: IMF (Industrial manufacture); PREP (Preparation)

(antibiotic cyan426-A produced by fermentation of *Cylindrocarpum* NRRL 30632)

RN 709041-56-5 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-methoxy-14,14b,16,18-tetramethyl-, (7R,11aS,12R,14aR,14bS,16R,18S,18aR,18bS,18cS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:238719 HCAPLUS

DOCUMENT NUMBER: 138:398528

TITLE: Biosynthesis of structurally unique fungal metabolite GKK1032A2: indication of novel carbocyclic formation mechanism in polyketide biosynthesis

AUTHOR(S): Oikawa, Hideaki

CORPORATE SOURCE: Department of Applied Bioscience, Graduate School of Agriculture, Hokkaido University, Sapporo, 060-8589, Japan

SOURCE: Journal of Organic Chemistry (2003), 68(9), 3552-3557

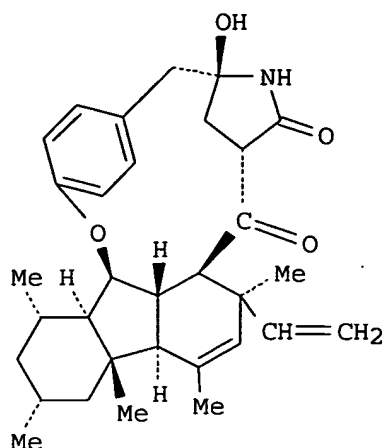
CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB The biosynthesis of the antitumor agent GKK1032A2 (I) was investigated by administration of isotopically labeled ( $^{13}\text{C}$  and  $^2\text{H}$ ) precursors to *Penicillium* sp. GKK1032. These studies showed that the backbone of I is constructed from L-tyrosine and a nonaketide chain flanked with 5 Me groups, probably by a polyketide synthase and a nonribosomal peptide synthetase hybrid. On the basis of the oxidation level of the starter unit and unusual 13-membered macroether formation between the tyrosine hydroxy group and the polyketide chain, novel cyclization mechanisms on the formation of a tricyclic system and a macroether have been proposed. Involvement of a similar type of cyclization in the biosynthesis of structurally related metabolites is discussed.

IT 529481-13-8

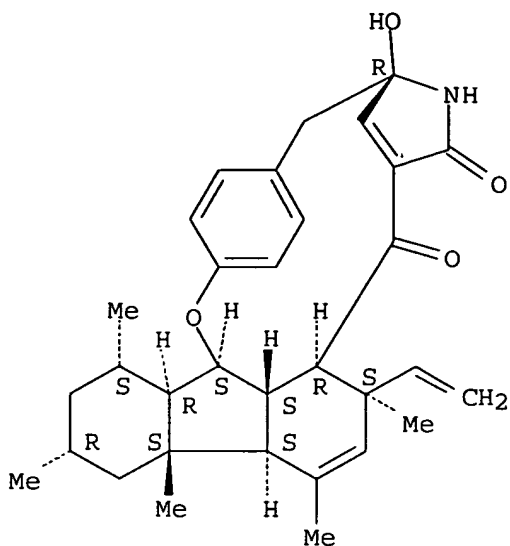
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(indication of novel carbocyclic formation mechanism in polyketide biosynthesis in the biosynthesis of structurally unique fungal metabolite GKK1032A2)

RN 529481-13-8 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-hydroxy-12,14,14b,16,18-pentamethyl-, (7R,11aR,12S,14aS,14bS,16R,18S,18aR,18bS,18cS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.





REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:136804 HCAPLUS

DOCUMENT NUMBER: 136:398250

TITLE: Pyrrocidines A and B, new antibiotics produced by a filamentous fungus

AUTHOR(S): He, Haiyin; Yang, Hui Y.; Bigelis, Ramunas; Solum, Eric H.; Greenstein, Michael; Carter, Guy T.

CORPORATE SOURCE: Natural Products Chemistry, Wyeth-Ayerst Research, Pearl River, NY, 10965, USA

SOURCE: Tetrahedron Letters (2002) 43(9), 1633-1636

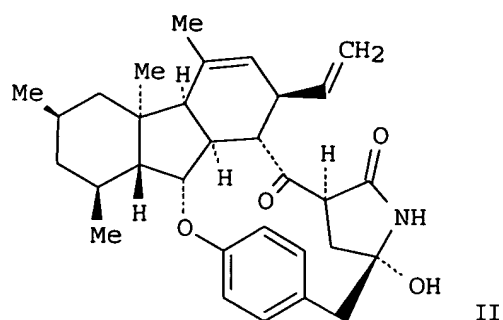
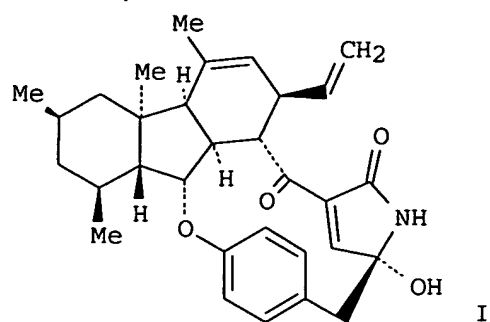
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Pyrrocidines A (I) and B (II), two new antibiotics, containing rare 13-membered macrocycles, were isolated from the fermentation broth of a fungus, LL-Cyan426. Pyrrocidine A exhibited potent activity against Gram-pos. bacteria, including drug-resistant strains. The structures of these compds. were established using spectroscopic methods.

IT 428439-24-1P, Pyrrocidine A

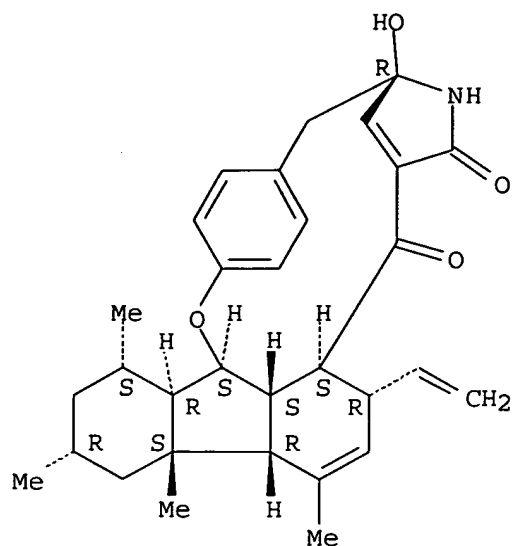
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(pyrrocidine A and B, new antibiotics produced by a filamentous fungus)

RN 428439-24-1 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-hydroxy-14,14b,16,18-tetramethyl-, (7R,11aS,12R,14aR,14bS,16R,18S,18aR,18bS,18cS)-rel-(+)-(9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.  
Currently available stereo shown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL REGISTRY

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 24.62      | 186.16  |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| -2.19      | -2.19   |

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STRUCTURE FILE UPDATES: 28 OCT 2005 HIGHEST RN 866391-97-1

DICTIONARY FILE UPDATES: 28 OCT 2005 HIGHEST RN 866391-97-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
 \*  
 \* The CA roles and document type information have been removed from \*  
 \* the IDE default display format and the ED field has been added, \*  
 \* effective March 20, 2005. A new display format, IDERL, is now \*  
 \* available and contains the CA role and document type information. \*

\*\*\*\*\*

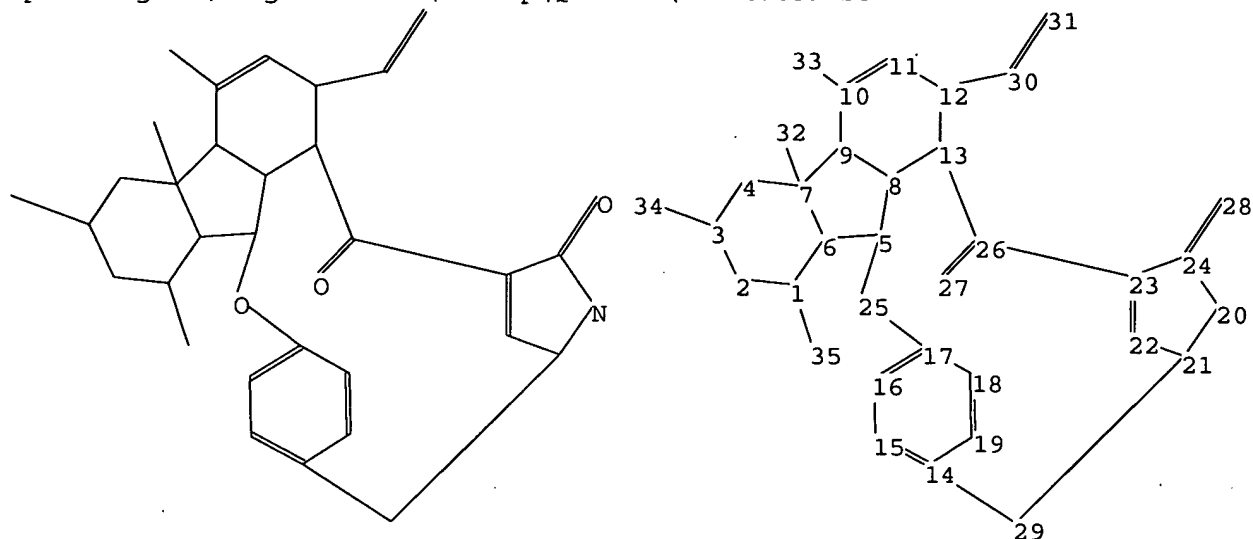
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10735953a.str



chain nodes :

27 28 30 31 32 33 34 35

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23  
24 25 26 29

chain bonds :

1-35 3-34 7-32 10-33 12-30 24-28 26-27 30-31

ring bonds :

1-2 1-6 2-3 3-4 4-7 5-8 5-6 5-25 6-7 7-9 8-13 8-9 9-10 10-11 11-12  
12-13 13-26 14-15 14-19 14-29 15-16 16-17 17-18 17-25 18-19 20-21 20-24  
21-22 21-29 22-23 23-24 23-26

exact/norm bonds :

5-8 5-25 8-13 8-9 9-10 10-11 11-12 12-13 13-26 14-29 17-25 20-21 20-24  
21-29 23-24 23-26 24-28 26-27

exact bonds :

1-2 1-6 1-35 2-3 3-4 3-34 4-7 5-6 6-7 7-9 7-32 10-33 12-30 21-22  
22-23 30-31

normalized bonds :

14-15 14-19 15-16 16-17 17-18 18-19

10/30/2005 10735953.trn

isolated ring systems :  
containing 1 :

G1:H,CH3,Ak

Match level :

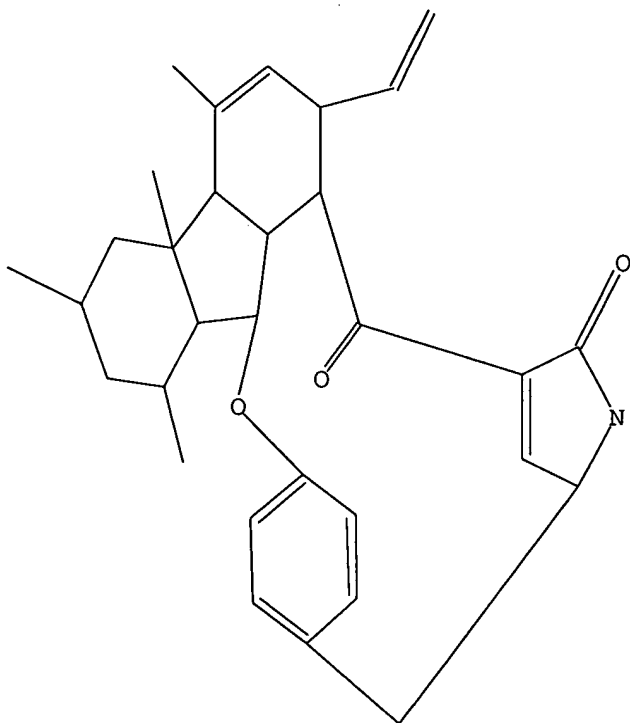
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:CLASS  
29:Atom 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



G1 H,Me,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 15:08:06 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED

0 ITERATIONS

0 ANSWERS

10735953.trn

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15:10

10/30/2005 10735953.trn

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 sss full

FULL SEARCH INITIATED 15:08:13 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 11 TO ITERATE

100.0% PROCESSED 11 ITERATIONS

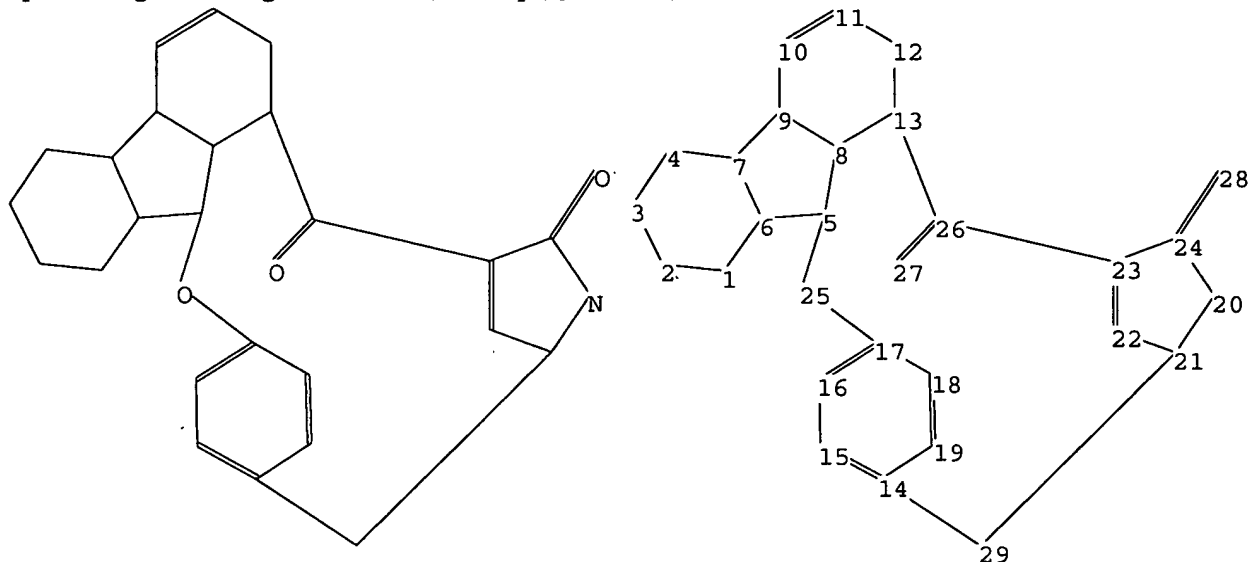
SEARCH TIME: 00.00.01

3 ANSWERS

L7 3 SEA SSS FUL L5

=>

Uploading C:\Program Files\Stnexp\Queries\10735953b.str



chain nodes :

27 28

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23  
24 25 26 29

chain bonds :

24-28 26-27

ring bonds :

1-2 1-6 2-3 3-4 4-7 5-8 5-6 5-25 6-7 7-9 8-13 8-9 9-10 10-11 11-12  
12-13 13-26 14-15 14-19 14-29 15-16 16-17 17-18 17-25 18-19 20-21 20-24  
21-22 21-29 22-23 23-24 23-26

exact/norm bonds :

5-8 5-25 8-13 8-9 9-10 10-11 11-12 12-13 13-26 14-29 17-25 20-21 20-24  
21-29 23-24 23-26 24-28 26-27

exact bonds :

1-2 1-6 2-3 3-4 4-7 5-6 6-7 7-9 21-22 22-23

10/30/2005 10735953.trn

normalized bonds :

14-15 14-19 15-16 16-17 17-18 18-19

isolated ring systems :

containing 1 :

G1:H,CH3,Ak

Match level :

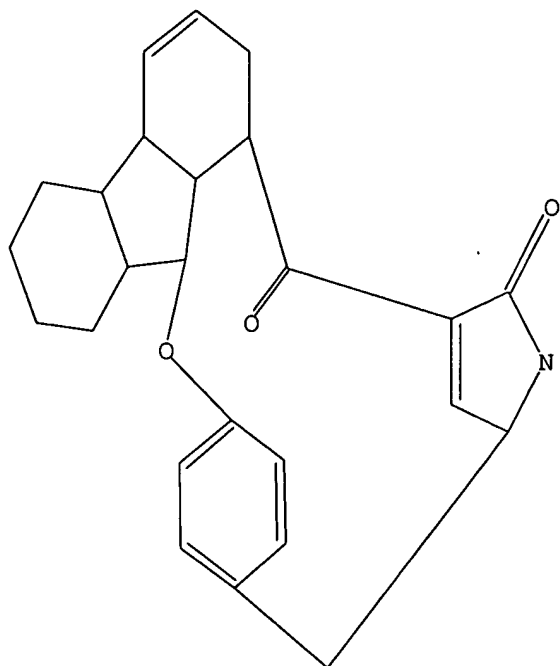
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:CLASS  
29:Atom

L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

L8 STR



G1 H,Me,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 18

SAMPLE SEARCH INITIATED 15:09:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED

0 ITERATIONS

0 ANSWERS

10735953.trn

Page 15

15:10

10/30/2005 10735953.trn

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

L9 0 SEA SSS SAM L8

=> s l8 sss full

FULL SEARCH INITIATED 15:09:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS  
SEARCH TIME: 00.00.01

3 ANSWERS

L10 3 SEA SSS FUL L8

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

FULL ESTIMATED COST

323.09

509.25

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE  
ENTRY

TOTAL  
SESSION

CA SUBSCRIBER PRICE

0.00

-2.19

FILE 'HCAPLUS' ENTERED AT 15:09:32 ON 30 OCT 2005

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FILE LAST UPDATED: 28 Oct 2005 (20051028/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:04:36 ON 30 OCT 2005)

FILE 'REGISTRY' ENTERED AT 15:04:53 ON 30 OCT 2005

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 3 S L1 SSS FULL



10/30/2005 10735953.trn

FILE 'HCAPLUS' ENTERED AT 15:05:24 ON 30 OCT 2005

L4 3 S L3

FILE 'REGISTRY' ENTERED AT 15:07:46 ON 30 OCT 2005

L5 STRUCTURE UPLOADED

L6 0 S L5

L7 3 S L5 SSS FULL

L8 STRUCTURE UPLOADED

L9 0 S L8

L10 3 S L8 SSS-FULL

FILE 'HCAPLUS' ENTERED AT 15:09:32 ON 30 OCT 2005

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L11 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:533983 HCAPLUS

DOCUMENT NUMBER: 141:52971

TITLE: Antibiotic cyan426-A produced by fermentation of  
Cylindrocarpus NRRL 30632

INVENTOR(S): He, Haiyin; Yang, Hui; Bigelis, Ramunas

PATENT ASSIGNEE(S): Wyeth Holdings Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

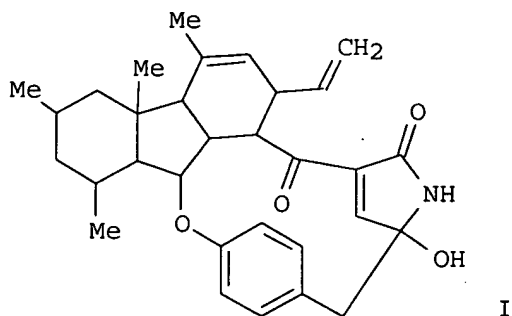
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE      | APPLICATION NO. | DATE       |
|------------------------|--------|-----------|-----------------|------------|
| US 2004127540          | A1     | 20040701  | US 2003-735953  | 20031215   |
| PRIORITY APPLN. INFO.: |        |           | US 2002-434005P | P 20021217 |
| OTHER SOURCE(S):       | MARPAT | 141:52971 |                 |            |
| GI                     |        |           |                 |            |



AB The invention relates to a new antibiotic designated Cyan426-A (I) , to its production by fermentation, to methods for its recovery and concentration from the

crude solns., and to a process for its purification and to semisynthetic ethers of Cyan426-A, Cyan426-A-ethers.

IT **428439-24-1DP**, Cyan 426-A, and ethers of

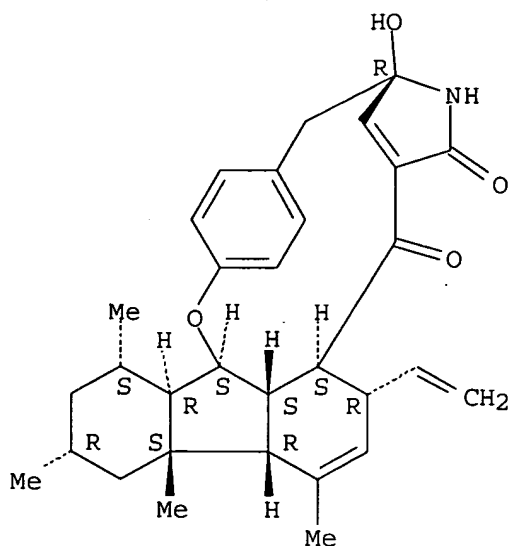
RL: BMF (Bioindustrial manufacture); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)

(antibiotic cyan426-A produced by fermentation of *Cylindrocarpon* NRRL 30632)

RN 428439-24-1 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-hydroxy-14,14b,16,18-tetramethyl-, (7R,11aS,12R,14aR,14bS,16R,18S,18aR,18bS,18cS)-rel-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.  
Currently available stereo shown.



IT **709041-56-5P**, Cyan 426-A methyl ether

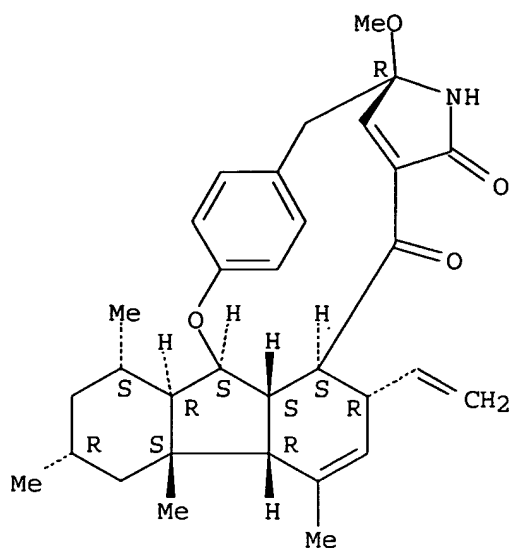
RL: IMF (Industrial manufacture); PREP (Preparation)

(antibiotic cyan426-A produced by fermentation of *Cylindrocarpon* NRRL 30632)

RN 709041-56-5 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-methoxy-14,14b,16,18-tetramethyl-, (7R,11aS,12R,14aR,14bS,16R,18S,18aR,18bS,18cS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L11 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:238719 HCAPLUS

DOCUMENT NUMBER: 138:398528

TITLE: Biosynthesis of structurally unique fungal metabolite  
GKK1032A2: indication of novel carbocyclic formation  
mechanism in polyketide biosynthesis

AUTHOR(S): Oikawa, Hideaki

CORPORATE SOURCE: Department of Applied Bioscience, Graduate School of  
Agriculture, Hokkaido University, Sapporo, 060-8589,  
Japan

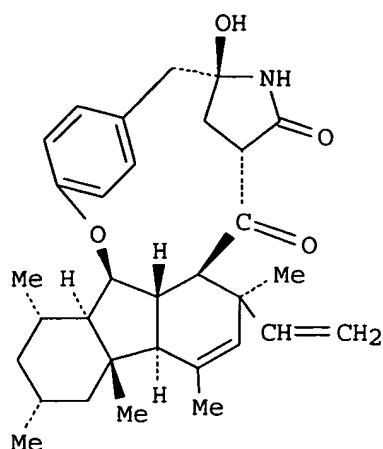
SOURCE: Journal of Organic Chemistry (2003), 68(9), 3552-3557  
CODEN: JOCEAH; ISSN: 0022-3262

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB The biosynthesis of the antitumor agent GKK1032A2 (I) was investigated by administration of isotopically labeled ( $^{13}\text{C}$  and  $^2\text{H}$ ) precursors to *Penicillium* sp. GKK1032. These studies showed that the backbone of I is constructed from L-tyrosine and a nonaketide chain flanked with 5 Me groups, probably by a polyketide synthase and a nonribosomal peptide synthetase hybrid. On the basis of the oxidation level of the starter unit and unusual 13-membered macroether formation between the tyrosine hydroxy group and the polyketide chain, novel cyclization mechanisms on the formation of a tricyclic system and a macroether have been proposed. Involvement of a similar type of cyclization in the biosynthesis of structurally related metabolites is discussed.

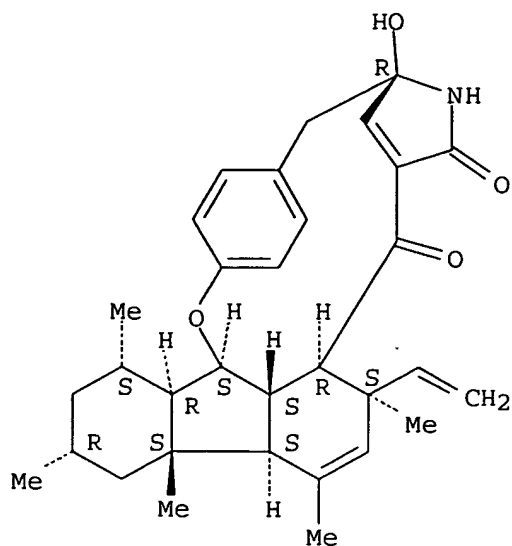
IT 529481-13-8

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(indication of novel carbocyclic formation mechanism in polyketide biosynthesis in the biosynthesis of structurally unique fungal metabolite GKK1032A2)

RN 529481-13-8 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-hydroxy-12,14,14b,16,18-pentamethyl-, (7R,11aR,12S,14aS,14bS,16R,18S,18aR,18bS,18cS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:136804 HCAPLUS

DOCUMENT NUMBER: 136:398250

TITLE: Pyrrocidines A and B, new antibiotics produced by a filamentous fungus

AUTHOR(S): He, Haiyin; Yang, Hui Y.; Bigelis, Ramunas; Solum, Eric H.; Greenstein, Michael; Carter, Guy T.

CORPORATE SOURCE: Natural Products Chemistry, Wyeth-Ayerst Research, Pearl River, NY, 10965, USA

SOURCE: Tetrahedron Letters (2002), 43(9), 1633-1636

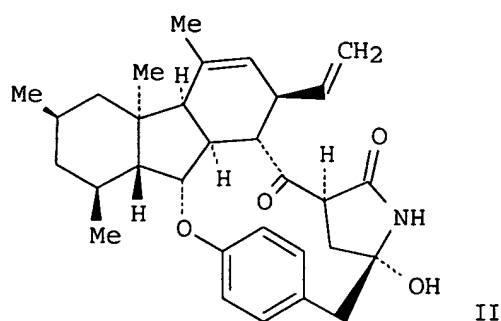
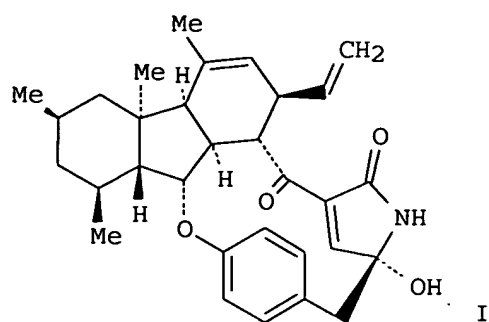
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Pyrrocidines A (I) and B (II), two new antibiotics, containing rare 13-membered macrocycles, were isolated from the fermentation broth of a fungus, LL-Cyan426. Pyrrocidine A exhibited potent activity against Gram-pos. bacteria, including drug-resistant strains. The structures of these compds. were established using spectroscopic methods.

IT 428439-24-1P, Pyrrocidine A

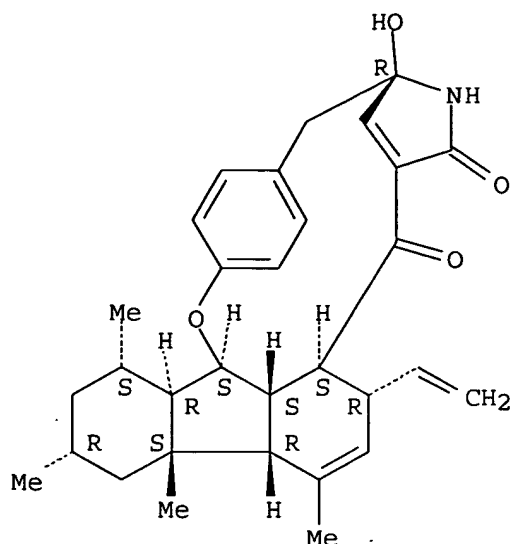
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(pyrrocidine A and B, new antibiotics produced by a filamentous fungus)

RN 428439-24-1 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-hydroxy-14,14b,16,18-tetramethyl-, (7R,11aS,12R,14aR,14bS,16R,18S,18aR,18bS,18cS)-rel-(+)-(9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.  
Currently available stereo shown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L12 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:533983 HCAPLUS

DOCUMENT NUMBER: 141:52971

TITLE: Antibiotic cyan426-A produced by fermentation of  
Cylindrocarpus NRRL 30632

INVENTOR(S): He, Haiyin; Yang, Hui; Bigelis, Ramunas

PATENT ASSIGNEE(S): Wyeth Holdings Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

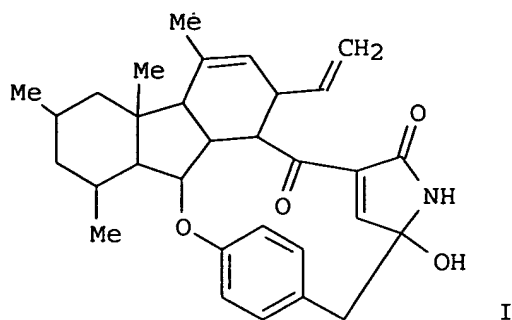
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND | DATE             | APPLICATION NO. | DATE       |
|------------------------|------|------------------|-----------------|------------|
| US 2004127540          | A1   | 20040701         | US 2003-735953  | 20031215   |
| PRIORITY APPLN. INFO.: |      |                  | US 2002-434005P | P 20021217 |
| OTHER SOURCE(S):       |      | MARPAT 141:52971 |                 |            |

GI



AB The invention relates to a new antibiotic designated Cyan426-A (I) , to its production by fermentation, to methods for its recovery and concentration from the

crude solns., and to a process for its purification and to semisynthetic ethers of Cyan426-A, Cyan426-A-ethers.

IT **428439-24-1DP**, Cyan 426-A, and ethers of

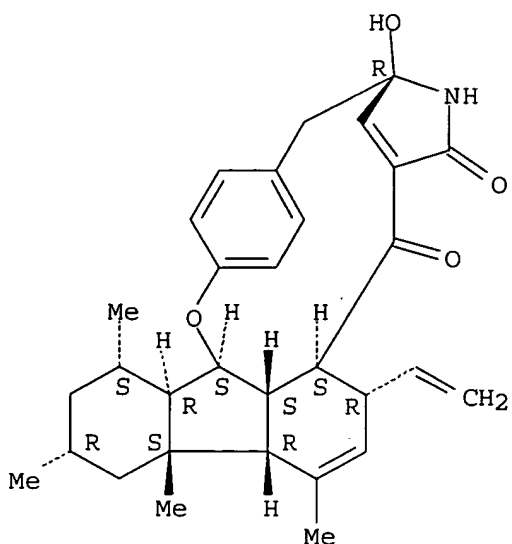
RL: BMF (Bioindustrial manufacture); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)

(antibiotic cyan426-A produced by fermentation of *Cylindrocarpon* NRRL 30632)

RN 428439-24-1 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-hydroxy-14,14b,16,18-tetramethyl-, (7R,11aS,12R,14aR,14bS,16R,18S,18aR,18bS,18cS)-rel-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown. Currently available stereo shown.



IT **709041-56-5P**, Cyan 426-A methyl ether

RL: IMF (Industrial manufacture); PREP (Preparation)

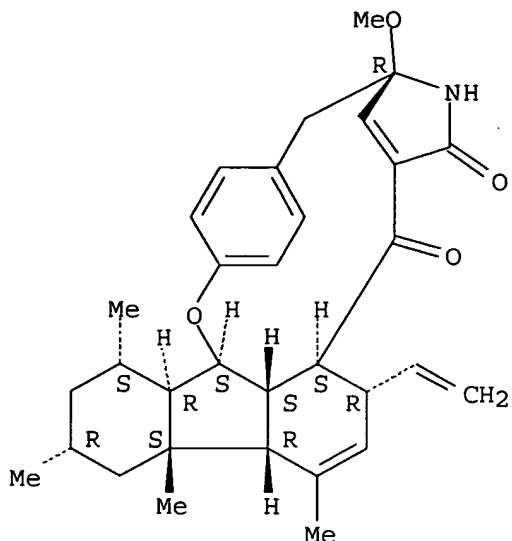
(antibiotic cyan426-A produced by fermentation of *Cylindrocarpon* NRRL 30632)

RN 709041-56-5 HCAPLUS

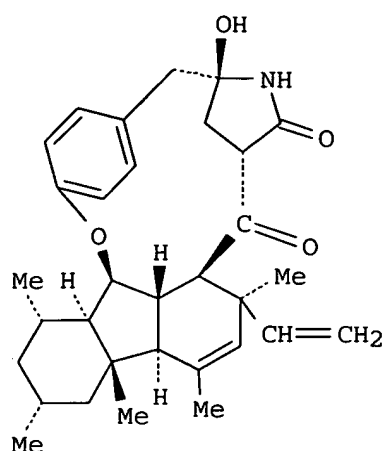


CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-methoxy-14,14b,16,18-tetramethyl-, (7R,11aS,12R,14aR,14bS,16R,18S,18aR,18bS,18cS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:238719 HCAPLUS  
DOCUMENT NUMBER: 138:398528  
TITLE: Biosynthesis of structurally unique fungal metabolite GKK1032A2: indication of novel carbocyclic formation mechanism in polyketide biosynthesis  
AUTHOR(S): Oikawa, Hideaki  
CORPORATE SOURCE: Department of Applied Bioscience, Graduate School of Agriculture, Hokkaido University, Sapporo, 060-8589, Japan  
SOURCE: Journal of Organic Chemistry (2003), 68(9), 3552-3557  
CODEN: JOCEAH; ISSN: 0022-3263  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



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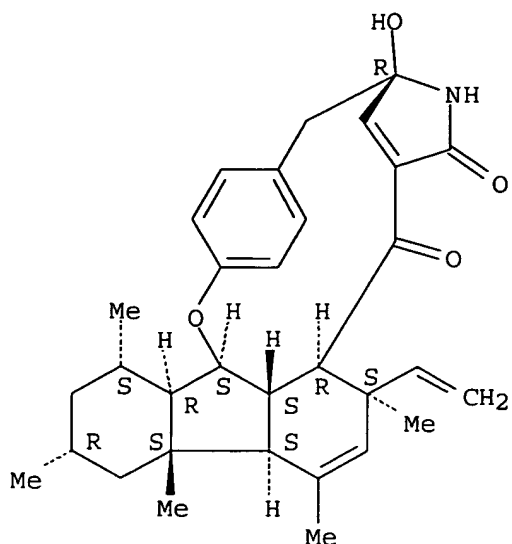
IT 529481-13-8

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(indication of novel carbocyclic formation mechanism in polyketide biosynthesis in the biosynthesis of structurally unique fungal metabolite GKK1032A2)

RN 529481-13-8 HCAPLUS

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Absolute stereochemistry.



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L12 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:136804 HCAPLUS

DOCUMENT NUMBER: 136:398250

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AUTHOR(S): He, Haiyin; Yang, Hui Y.; Bigelis, Ramunas; Solum, Eric H.; Greenstein, Michael; Carter, Guy T.

CORPORATE SOURCE: Natural Products Chemistry, Wyeth-Ayerst Research, Pearl River, NY, 10965, USA

SOURCE: Tetrahedron Letters (2002), 43(9), 1633-1636

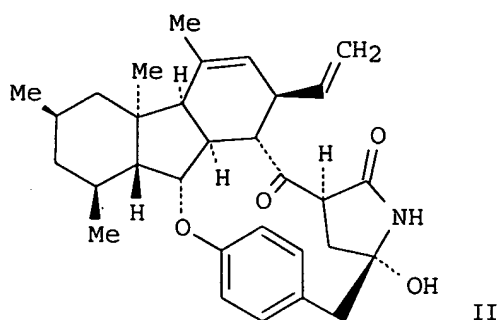
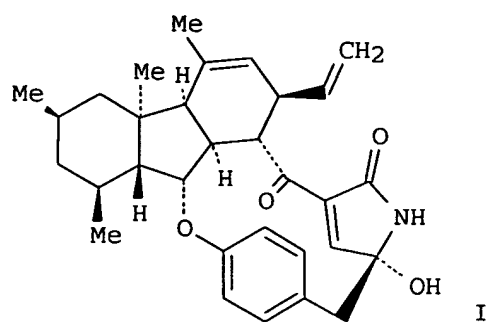
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



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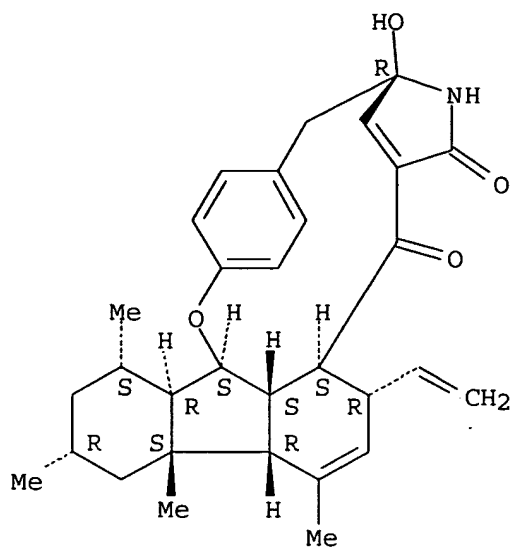
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(pyrrocidine A and B, new antibiotics produced by a filamentous fungus)

RN 428439-24-1 HCAPLUS

CN 2,5-Etheno-7,10-metheno-10H-fluoreno[9,1-bc]-1,8-oxaazacyclotetradecine-9,11(6H,11aH)-dione, 12-ethenyl-7,8,12,14a,14b,15,16,17,18,18a,18b,18c-dodecahydro-7-hydroxy-14,14b,16,18-tetramethyl-, (7R,11aS,12R,14aR,14bS,16R,18S,18aR,18bS,18cS)-rel-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.  
Currently available stereo shown.



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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